

# 4000 Series

10W - 33KV SINGLE OUTPUT DC/DC INDUSTRIAL

## Features

- 0 to 100% adjustability.
- Voltage programmable.
- Voltage monitor.
- Remote on/off control.
- EMI/RFI shielding.
- Short circuit, reverse polarity protection.
- Arc protection.



## Specifications

### INPUT

Voltage +24Vdc (+20% to -5%).

### OUTPUT

Power 10W.

Voltage See table.

Current See table.

Ripple See table.

Analog control 0 to 10 Volts = 0 to 100% output.

Voltage monitor 0 to 10 Volts = 0 to 100% output..

On/Off control On = 0 Volts or N.C.  
Off = 5 Volts

Reference output 10 Volts ( $\pm 0.5\%$ ).

### ENVIRONMENTAL

Operating temperature  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

### GENERAL

Dimensions 104 x 78.7 x 35.56 mm (4010 to 4200).  
104 x 91.4 x 35.56 mm (4300 to 4330).

Weight 675g.

Packaging Fully encapsulated.

Case material Black anodised aluminum.

Input connector Molex 09-50-3071 (supplied).

Molex pins 08-50-0106 (supplied).

High voltage leads 30KV 22AWG (4010 to 4200).  
40KV 20AWG (4300 to 4330).

### OPTIONS

Negative output voltage Put "N" after model (eg 4300N).

## Selection Tables

MODEL NUMBER	OUTPUT	OUTPUT*1	RIPPLE
	VOLTAGE	CURRENT	
4010	0 to 1,000V	10mA	0.1%
4020	0 to 2,000V	5mA	0.1%
4030	0 to 3,000V	3.3mA	0.2%
4050	0 to 5,000V	2mA	0.1%
4070	0 to 7,000V	1.4mA	0.1%
4100	0 to 10,000V	1mA	0.1%
4120	0 to 12,000V	0.8mA	0.1%
4150	0 to 15,000V	0.67mA	0.1%
4200	0 to 20,000V	0.5mA	0.2%
4300*2	0 to 30,000V	0.33mA	0.4%
4330*2	0 to 33,000V	0.30mA	0.2%

Note: 1. At maximum rated output voltage.  
2. No voltage monitor.

### PIN# FUNCTION

1	On/Off control
2	Ground/case
3	+24Volt input
4	10 Volt reference output
5	Programming voltage
6	Internal potentiometer
7	Voltage monitor

### PROGRAMMING

VOLTAGE	Apply 0-10V to pin 5 for 0-100% output.
RESISTANCE	Connect potentiometer to pin 4 (reference voltage), connect wiper arm to pin 5, and connect potentiometer to the ground.
MANUAL	Connect pin 6 to pin 5, turn front panel pot for voltage adjust.